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APPLICATIO	N NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/033,9	03	01/03/2002	Ernesto E. Marinero	YOR920010107US1	9668	
21254	7590	04/16/2003				
MCGINN & GIBB, PLLC 8321 OLD COURTHOUSE ROAD SUITE 200				EXAMINER		
				BERNATZ, KEVIN M		
VIENN	IA, VA 22	182-3817		ART UNIT PAPER NUMBER		
		•		1773	6	
			1	DATE MAILED: 04/16/2003	DATE MAILED: 04/16/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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*		Application N .	pplicant(s)	-1-1
		10/033,903	MARINERO ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Kevin M Bernatz	1773	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with	the correspondenc address	
THE N - Exter after - If the - If NO - Failui - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a rep y within the statutory minimum of thirty (will apply and will expire SIX (6) MONTH , cause the application to become ABAI	ly be timely filed 30) days will be considered timely. IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).	•
1)	Responsive to communication(s) filed on	<u> </u>		
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Th	is action is non-final.		
3)	Since this application is in condition for allowated closed in accordance with the practice under			S
·	on of Claims			
, —	Claim(s) <u>1-41</u> is/are pending in the application		•	
	4a) Of the above claim(s) is/are withdrav	wn from consideration.		
	Claim(s) is/are allowed.			
	Claim(s) is/are rejected.			
	Claim(s) is/are objected to. Claim(s) <u>1-41</u> are subject to restriction and/or e	olection requirement		
	on Papers	election requirement.		
	The specification is objected to by the Examine	r.		
, —	The drawing(s) filed on is/are: a)☐ accep		e Examiner.	
	Applicant may not request that any objection to the			
11) 🔲 🗆	The proposed drawing correction filed on	_ is: a)□ approved b)□ dis	approved by the Examiner.	
	If approved, corrected drawings are required in rep	ply to this Office action.		
12)	The oath or declaration is objected to by the Ex	aminer.		
Priority u	inder 35 U.S.C. §§ 119 and 120			
13)	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
a)[☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority document	s have been received.		
	2. Certified copies of the priority document	s have been received in App	olication No	
* S	3. Copies of the certified copies of the prior application from the International Buse the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).		
14) <u></u> A	cknowledgment is made of a claim for domesti	c priority under 35 U.S.C. §	119(e) (to a provisional application	on).
) The translation of the foreign language pro- Acknowledgment is made of a claim for domest	• •		
Attachmen	_			
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inf	mmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)	
0.0-1117	adomat. Office			

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DETAILED ACTION

Election/Restrictions

- Restriction to one of the following inventions is required under 35 U.S.C. 121: 1.
 - Claims 1 25 and 40, drawn to a method of making a patterned magnetic 1. recording medium, classified in class 427, subclass 130+.
 - Claims 26 38 and 41, drawn to a read/write head or apparatus for 11. patterning a magnetic recording medium, classified in class 369, subclass 13.01.
 - 111. Claim 39, drawn to a patterned magnetic recording medium, classified in class 428, subclass 694T.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the process as claimed can be practiced by another materially different apparatus, such as using ion lithography or implantation upon the heated medium (i.e. thermally-coupling said recording medium and a heat source to raise the temperature inorder to alter the chemical composition by ion implantation or lithography).

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3. Inventions I and III are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process, such as by ion implantation or lithography.

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- 4. Inventions II and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination could alter the composition of the entire medium instead of just a portion or could utilize a medium that had not yet been altered in any manner. The subcombination has separate utility such as use in standard MR type heads wherein the recording medium chemical composition is not further altered (i.e. patterned magnetic recording media are old in the art since a patterned media has discrete, localized domains which serve to increase the recording density and reduce noise).
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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6. Should applicants elect Group I, a species restriction will be further required. Group I contains claims directed to the following patentably distinct species of the claimed invention:

- (a) alternating the chemical composition to alter the magnetic order; or
- (b) alternating the chemical composition to alter the dielectric constant; or
- (c) alternating the chemical composition to alter the reflectivity; or
- (d) alternating the chemical composition to alter the electrical conductivity; or
- (e) alternating the chemical composition to alter the electron transport property; or
- (f) alternating the chemical composition to alter the thermal conductivity; or
- (g) alternating the chemical composition to transform the medium from a paramagnetic medium to a ferromagnetic medium; or
- (h) alternating the chemical composition to transform the medium from a ferromagnetic medium to a paramagnetic medium; or
- (i) alternating the chemical composition to alter the magnetic axis orientation of said medium; or
- (j) alternating the chemical composition to reduce at least one of magnetization or coercivity of the medium.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1 – 3, 10 – 17, and 22 – 25 are generic.

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Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 7. No telephone call was made due to the complexity of the above restriction requirement. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

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or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M Bernatz whose telephone number is (703) 308-

1737. The examiner can normally be reached on M-F, 9:00 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Thibodeau can be reached on (703) 308-2367. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

1 1

KMB April 9, 2003 Paul Thibodeau
Supervisory Patent Examiner
Tachnology Center 1700